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14	GOOGLE INC.			
15	UNITED STATES DISTRICT COURT			
16	NORTHERN DISTRICT OF CALIFORNIA			
17	SAN FRANCISCO DIVISION			
18				
19	ORACLE AMERICA, INC.,	Case No. 3:10-cv-03561-WHA		
20	Plaintiff,	GOOGLE'S MOTION IN LIMINE NO. 2		
21	v.	TO EXCLUDE ALLEGED PERFORMANCE BENEFITS OF		
22	GOOGLE INC.,	ANDROID WITH THE ACCUSED FUNCTIONALITY		
23	Defendant.	Judge: Hon. William Alsup		
24		Date Comp. Filed: October 27, 2010		
25		Trial Date: October 31, 2011		
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MOTION AND RELIEF REQUESTED

Under Federal Rules of Evidence 401, 402, 403 and 702, defendant Google Inc. ("Google") hereby moves the Court for an order excluding *in limine* all evidence and argument concerning the alleged performance benefits of Android with the accused functionality.

DISCUSSION

Oracle submitted four short reports by its own employees, Robert Vandette, Noel Poore, Erez Landau and Seeon Birger ("the performance reports"), that collectively purport to quantify the performance of Android with and without the alleged inventions claimed in five of Oracle's asserted patents. Based on these reports, Oracle experts Dr. Mitchell (on patent infringement), Dr. Goldberg (on patent validity) and Dr. Cockburn (on damages) conclude that alleged infringement of the asserted patents results in performance gains on Android devices, and by extension, is the basis for consumer demand and Android's success.

First, the Oracle employees who submitted the performance reports conceded that they knew little about the Oracle patents, the asserted claims or the accused functionality. Moreover, the employees lack any semblance of objectivity and failed to comply with the basic tenets of Daubert and Rule 702. Second, the opinions are irrelevant to any issue of consequence in the trial's initial liability phase—and thus are inadmissible under Rule 402 except in the damages phase, at most. Third, the opinions should be excluded under Rule 403 even for the damages phase of trial because the limited probative value of the performance reports is substantially outweighed by the danger of misleading the jury into thinking that actual Android devices running actual Android applications would experience a similar performance impact.

1. The Performance Reports Fail to Comply with *Daubert* and Rule 702

The performance reports attempt to demonstrate the benefits of implementing five of the asserted patents in the Android operating system. (The '447 and '476 patents are not addressed in the reports). To accomplish this, Oracle ran various "performance benchmark" tests against unmodified Android code to generate various performance statistics (*e.g.*, how fast applications are executed or how much storage space they require in memory). Oracle then modified the Android code to try disabling the accused functionality, and re-ran the same tests in order to

compare the two sets of results and point to any drop in performance as indicative of the benefits
provided by the patented techniques. The idea may <i>seem</i> simple in theory, but it is a complicated
task in practice, and Oracle's employees took countless shortcuts, disregarded approved
methodologies, and ran particular tests that were assured (and evidently designed) to reach the
conclusions sought by Oracle. Most critically, they made subpar modifications to the Android
code that were crude, hasty and in many instances crippled substantial non-accused
functionalities as well. The performance reports are so fraught with errors, assumptions and an
overall lack of detail that, had the reports been submitted for peer review to any reputable
technical journal or academic institution, they would be immediately rejected. See Ellis v.
Costco Wholesale Corp., No. 07-15838, 2011 U.S. App. LEXIS 19060 at *25-26 (9th Cir. Sept.
16, 2011) ("Under <i>Daubert</i> , the trial court must act as a 'gatekeeper' to exclude junk science that
does not meet Federal Rule of Evidence 702's reliability standards by making a preliminary
determination that the expert's testimony is reliable." (citing Kumho Tire Co. v. Carmichael, 526
U.S. 137, 145 (1999).)
The essential prerequisite to any expert testimony is that it rest "on a reliable foundation."
Daubert v. Merrell Dow Pharms., Inc., 509 U.S. 579, 584-587 (1993). As codified in Rule 702:

If scientific, technical, or other specialized knowledge will assist the trier of fact to understand the evidence or to determine a fact in issue, a witness qualified as an expert by knowledge, skill, experience, training, or education, may testify thereto in the form of an opinion or otherwise, if (1) the testimony is based upon sufficient facts or data, (2) the testimony is the product of reliable principles and methods, and (3) the witness has applied the

principles and methods reliably to the facts of the case.

A. It is Unclear What Was Done, Why, and By Whom

Dr. Mitchell has no firsthand knowledge about any code modifications, test conditions, or the actual tests. He participated in some phone calls, after which he believed the employees used "modifications that [he] suggested" and that "the actual experiments that were carried out reflected [his] suggestions and requests on how to do it." Mitchell Dep. Tr. (attached as Ex. 2 to the Declaration of Daniel Purcell in Support of Google Inc.'s Motions *in Limine* ("Purcell Decl.") filed herewith) at 81:16 – 82:6; *see also* Purcell Decl. Ex. 3 (Mitchell Patent Report) at ¶

196. Yet, the Oracle engineers attribute everything they did to Dr. Mitchell. Robert Vandette			
submitted a report on the '104 and '205 patents and admitted that he "relied on Dr. Mitchell to			
interpret [the patent]." Purcell Decl. Ex. 4 (Vandette Dep. Tr.) at 74:16-17. When asked if he			
had the "knowledge necessary to determine what functionality should be disabled," he responded			
that he was "not a patent attorney" and did not "know exactly which claim in the ['104] patent			
corresponds to [the] functionality" he disabled. <i>Id.</i> at 76:23-24; 77:24-78:1. Likewise, Noel			
Poore submitted a report regarding the '520 and '702 patents and testified that he "looked			
through the patent[s]" but had no idea which claims were asserted, and was "not necessarily			
familiar enough with the detail of th[e] patent[s]" to know how they related to the accused			
functionality. Purcell Decl. Ex. 5 (Poore Dep. Tr.) at 33-35; 74-75. Erez Landau revealed that			
he reviewed only the Abstract of the '720 patent and "part of the claims." Purcell Decl. Ex. 6			
(Landau Dep. Tr.) at 21-22.			
In addition, Vandette, Poore and Landau all indicate in their August 9, 2011 reports that			
they downloaded the Android code, modified it, compiled it and tested it. Purcell Decl. Ex. 7			
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In addition, Vandette, Poore and Landau all indicate in their August 9, 2011 reports that they downloaded the Android code, modified it, compiled it and tested it. Purcell Decl. Ex. 7 (Vandette report) at ¶ 27-39; Purcell Decl. Ex. 8 (Poore report) at ¶ 12-14; Purcell Decl. Ex. 9 (Landau report) at ¶ 25-31. Now, in a report Oracle submitted on September 12, 2011 (after the close of expert discovery), a *fourth* employee named Seeon Birger claims that *he* was the one who downloaded the Android code, modified it, compiled it, and provided it to the other Oracle employees. *See* Purcell Decl. Ex. 10 (Birger report) at ¶ 11-21. Landau admitted as much during his deposition (*see* Purcell Decl. Ex. 6 (Landau Dep. Tr.) at 58-63), while Vandette and Poore appear to have concealed the fact that someone else performed the work disclosed in their reports. *See*, *e.g.*, Purcell Decl. Ex. 5, (Poore Dep. Tr.) at 25:9-11 ("Q. So you did all the work in this report by yourself, correct? A. That's correct"). In short, Oracle failed to provide the foundational report underlying the other performance reports until weeks later, without explanation, and prejudicing Google's discovery into the benchmarking analyses. Even more appalling, Oracle refuses to present Mr. Birger for deposition. *See* Purcell Decl. Ex. 11 (September 21, 2011 email from M. Francis to M. Peters.) For these reasons, all of the benchmarking analyses are legitimately in question and should be excluded for Oracle's failure

to comply with its expert-discovery obligations.

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B. Oracle Made Improper Modifications to the Android Code

Oracle's modifications of Android code improperly disabled or corrupted functionality in Android that is not accused of infringement. For example, Vandette disabled the JIT compiler for his '104 patent tests, even though the JIT compiler was never accused in connection with that patent. Purcell Decl. Ex. 4 (Vandette Dep. Tr.) at 84:18-25. With respect to the '205 patent, which is asserted against a single feature of the JIT compiler, Vandette again disabled the whole JIT compiler, even though the '205 patent itself recognizes the existence of JIT compilers in the prior art. For tests relating to the '702 patent, Poore modified Android code so existing duplicates would remain in the Android ".dex" files—but his report openly admits that the modified code created new duplicates that did not previously exist. Purcell Decl. Ex. 8 (Poore Report) at ¶ 23. Landau admitted that when disabling the copy-on-write functionality allegedly claimed by the '720 patent, his test program loaded 1,264 files into memory, but readily agreed that "if copy-on-write is disabled, it would just be a waste of memory to load these [files] ..." and it would make no sense to have Android run that way. Purcell Decl. Ex. 6 (Landau Dep. Tr.) at 86:1-87:24. As a whole, the performance reports fail to account for changes beyond the accused functionality responsible for differences in performance between the original and modified code. See Claar v. Burlington N.R.R., 29 F.3d 499 (9th Cir. 1994) (testimony excluded where the expert failed to consider other obvious causes for the plaintiff's condition). Oracle's experts offer no recognized methodology guiding their modifications of the Android source code. Under *Daubert*, the Court needs to exclude expert testimony unless the "methodology underlying the testimony is scientifically valid." 509 U.S. at 592-93.

C. Oracle's Reports Draw Conclusions Not Supported by Its Tests

Even assuming that Oracle's performance reports quantify the difference in running Android code with and without the accused functionality, Oracle uses the test results to make unfounded conclusions that those results are indicative of the patents' impact on the real-world performance of Android, as follows:

• Vandette and Poore did not test the performance of any actual Android applications;

Evidence regarding the purported performance impact of the asserted patents is

potentially probative of only damages theories, and all damages issues have been bifurcated. Thus, the purported performance impact of the asserted patents has no bearing on alleged infringement or invalidity and has no relevance to the liability phase of the trial.

As stated in Google's motion regarding "commercial success," claims about the performance with and without the asserted patents pose at least a "modest likelihood" of unfair prejudice and a more than a "small risk" of misleading the jury because it tends to create an inflated sense of the patent's importance to the success of Android. *See United States v. Gonzalez-Flores*, 418 F.3d 1093, 1098 (9th Cir. 2005) (applying Rule 403 and holding that "[w]here the evidence is of very slight (if any) probative value, it's an abuse of discretion to admit it if there's even a modest likelihood of unfair prejudice or a small risk of misleading the jury") (citation omitted); *see also United States v. Espinoza-Baza*, 647 F.3d 1182, 1190 (9th Cir. 2011) ("evidence presenting even a 'modest likelihood of unfair prejudice' is 'high enough to outweigh the . . . probative value' of marginally relevant evidence" under Rule 403) (citation omitted).

3. The Performance Reports Should Be Excluded From the Damages Phase of the Case under Rule 403

As explained above, Oracle's performance reports fail to analyze the performance impact of the accused infringing features on real-world Android devices and applications. Furthermore, the results are unreliable because they do not account for realistic non-infringing alternatives or the detrimental impact of Oracle's sloppy code modifications to non-infringing Android functionality. In view of these limitations, Oracle's reports offer little probative value, which value is substantially outweighed by its capacity to be used in prejudicial ways. For example, Oracle may contend that consumers' Android products would suffer a noticeable performance impact without the accused functionality. But this premise is unsupported by the performance reports, which focus on micro-benchmarks of the virtual machine, not overall system performance. Even if Oracle presents testimony within the scope of the reports, it threatens to mislead the jury to conclude that actual Android performance will mimic Oracle's test results, given all the flaws discussed above. Either way, the Court should exclude evidence regarding

1	the performance reports. See Rule 403 ("evidence may be excluded if its probative value is		
2	substantially outweighed by the danger of unfair prejudice, confusion of the issues, or misleadi	ng	
3	the jury"); Daubert, 509 U.S. at 595 ("Expert evidence can be both powerful and quite		
4	misleading because of the difficulty in evaluating it." (citation omitted)).		
5	As a final note, in order to safeguard the effectiveness of its ruling and thus avoid the		
6	danger of prejudice, the Court also should bar counsel for both parties from making any remark	ζS	
7	in opening argument about the alleged performance benefits of the asserted patents in Android.		
8	Respectfully submitted,		
9	Dated: September 24, 2011 KEKER & VAN NEST LLP		
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11	By: s/ Robert A. Van Nest ROBERT A. VAN NEST		
12	Attorneys for Defendant GOOGLE INC.		
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